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Leibniz
Universität
Hannover

Oberseminar

zur

Algebra und Algebraischen Kombinatorik

Dr. David Pauksztello

(Leibniz Universität Hannover)

"Classification of t-structures and co-t-structures for the Kronecker algebra"

This is a report on joint work with Peter Jørgensen (Newcastle-upon-Tyne). In this talk we consider the classification of t-structures and co-t-structures in the bounded derived category of representations of the Kronecker quiver (which is, via the Beilinson equivalence, equivalent to the bounded derived category of coherent sheaves on the projective line).

In the first part, we quickly explain the classification of t-structures obtained by Gorodentsev, Kuleshov and Rudakov via techniques from stability conditions. Using the analogous notion of a co-stability condition, we show how to classify co-t-structures. This is then used to compute the co-stability manifold of the bounded derived category of representations of the Kronecker quiver. We will give several explicit examples, and time permitting, give an indication of how these techniques can be developed to extend the classifications to algebras of tame hereditary type.

Termin

Mittwoch, 02.05.2012

14:30 – 16:00 Uhr, Raum g005

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

gez. Prof. Dr. C. Bessenrodt

**Institut für Algebra, Zahlentheorie
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